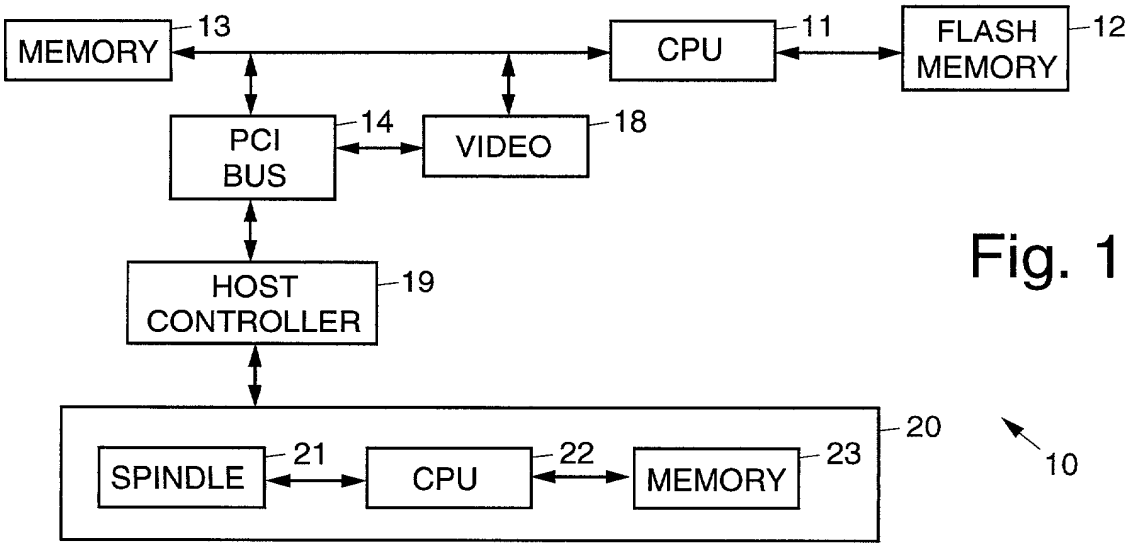


Fig. 1

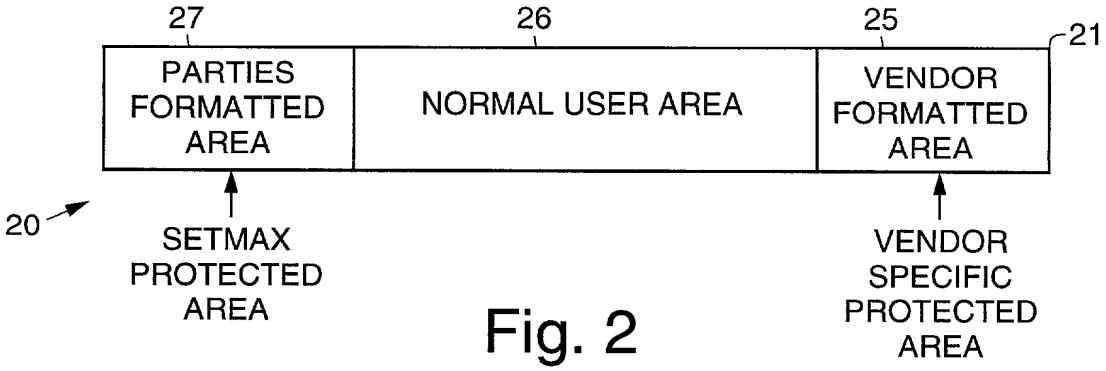


Fig. 2

Fig. 3a

PARTIES CALLING STRUCTURE

DESCRIPTION	OFFSET	TYPE
$PARTIES	0	ASCII TEXT
TRUST ME	8	ADDRESS
DIRECTORY	16	ADDRESS
OPEN SERVICE AREA	24	ADDRESS
OPEN SERVICE AREA SECURE	32	ADDRESS
OPEN PARTIES	40	ADDRESS
BOOT INFORMATION	48	ADDRESS
CLOSE	56	ADDRESS
CHECKSUM	64	WORD

Fig. 3

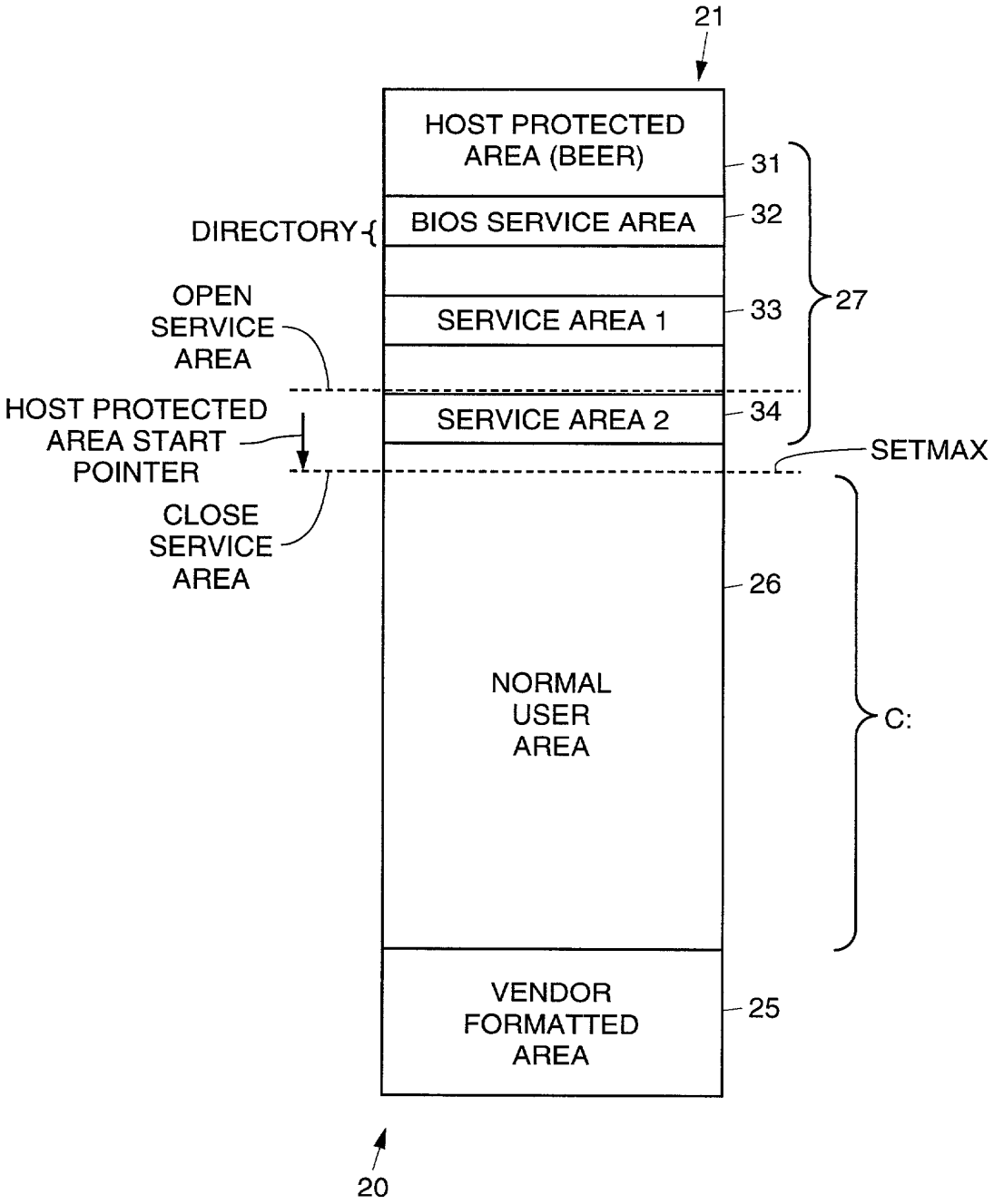

21
HOST PROTECTED AREA (BEER)
31
DIRECTORY
BIOS SERVICE AREA
32
OPEN SERVICE AREA
SERVICE AREA 1
33
27
HOST PROTECTED AREA START POINTER
SERVICE AREA 2
34
SETMAX
CLOSE SERVICE AREA
26
NORMAL USER AREA
C:
VENDOR FORMATTED AREA
25
20

Fig. 4

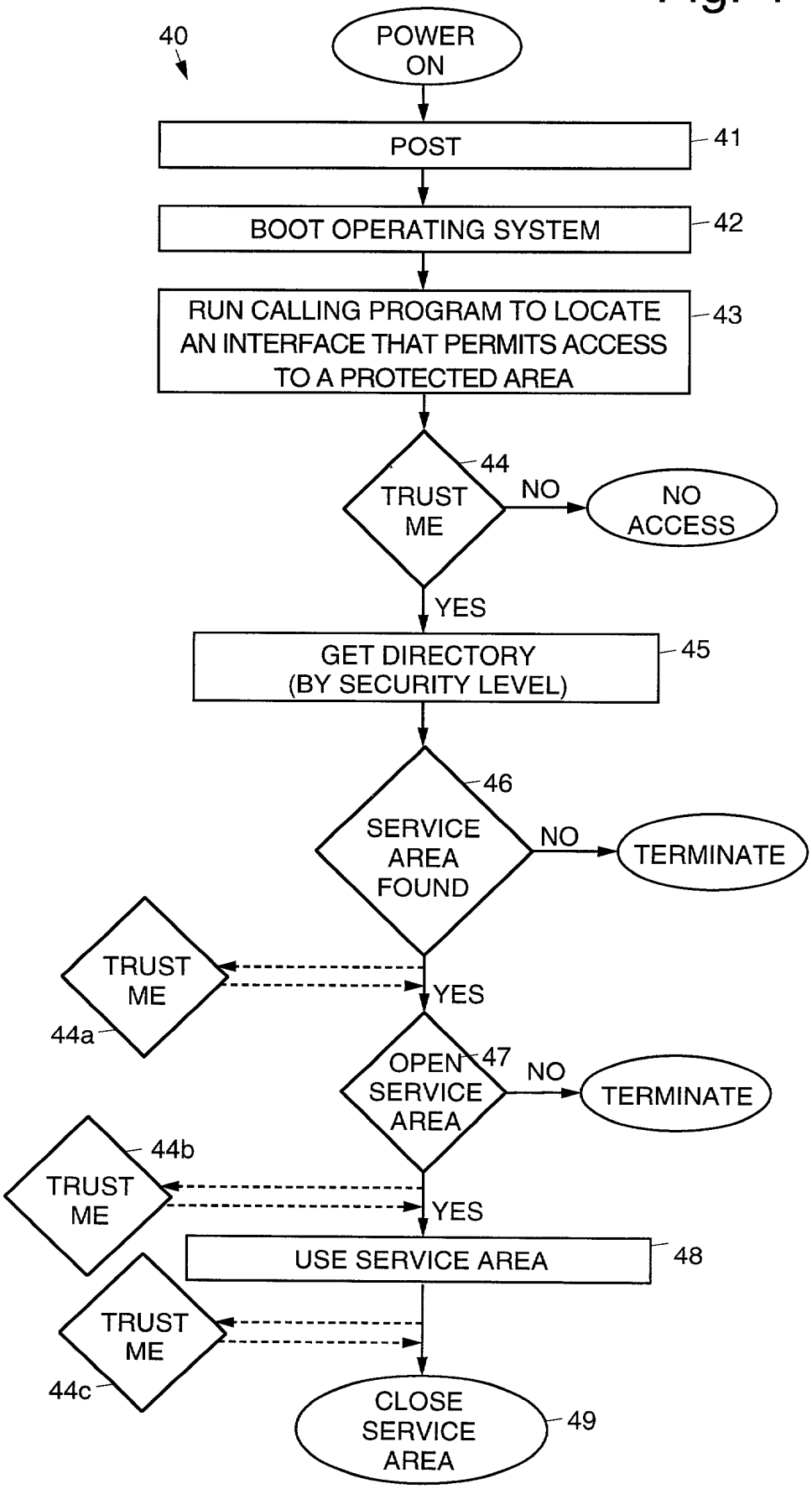

40
POWER ON
POST
41
BOOT OPERATING SYSTEM
42
RUN CALLING PROGRAM TO LOCATE AN INTERFACE THAT PERMITS ACCESS TO A PROTECTED AREA
43
TRUST ME
44
NO
NO ACCESS
YES
GET DIRECTORY (BY SECURITY LEVEL)
45
SERVICE AREA FOUND
46
NO
TERMINATE
TRUST ME
44a
YES
OPEN SERVICE AREA
47
NO
TERMINATE
TRUST ME
44b
YES
USE SERVICE AREA
48
TRUST ME
44c
CLOSE SERVICE AREA
49

Fig. 5

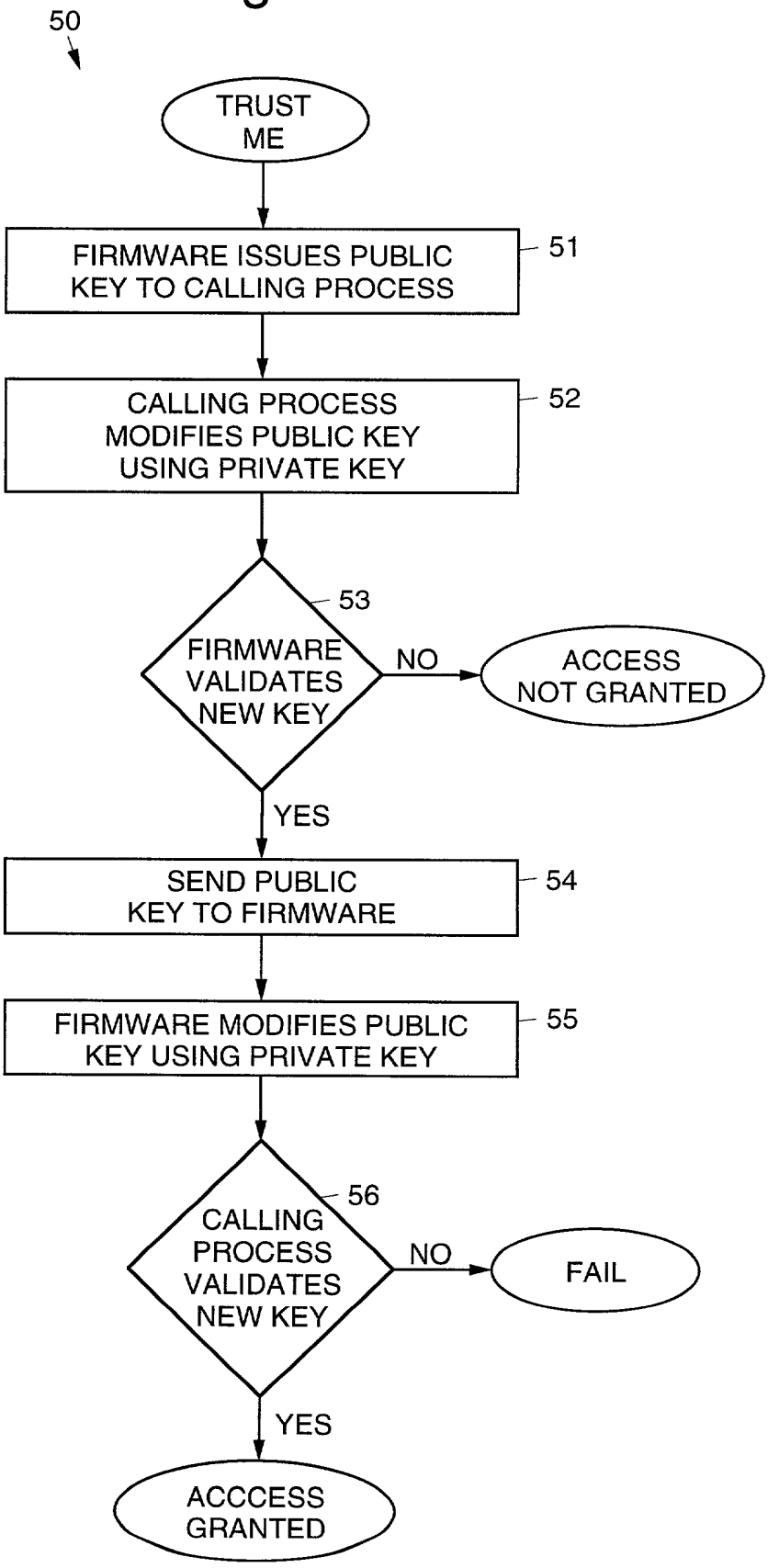

50
TRUST ME
FIRMWARE ISSUES PUBLIC KEY TO CALLING PROCESS
51
CALLING PROCESS MODIFIES PUBLIC KEY USING PRIVATE KEY
52
FIRMWARE VALIDATES NEW KEY
53
NO
ACCESS NOT GRANTED
YES
SEND PUBLIC KEY TO FIRMWARE
54
FIRMWARE MODIFIES PUBLIC KEY USING PRIVATE KEY
55
CALLING PROCESS VALIDATES NEW KEY
56
NO
FAIL
YES
ACCCESS GRANTED

FIG. 6

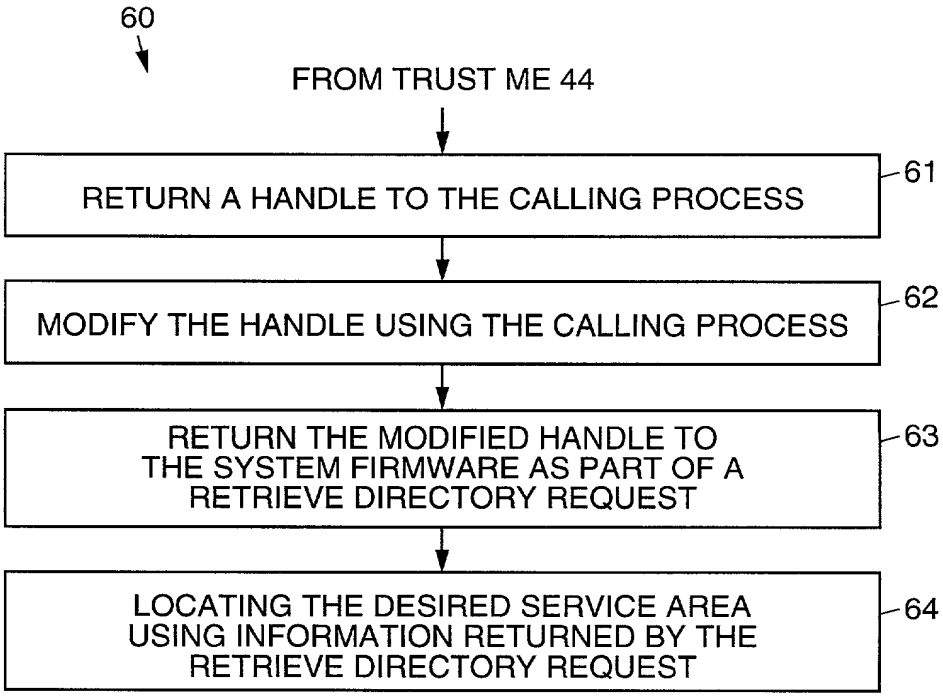

60
FROM TRUST ME 44
RETURN A HANDLE TO THE CALLING PROCESS
61
MODIFY THE HANDLE USING THE CALLING PROCESS
62
RETURN THE MODIFIED HANDLE TO THE SYSTEM FIRMWARE AS PART OF A RETRIEVE DIRECTORY REQUEST
63
LOCATING THE DESIRED SERVICE AREA USING INFORMATION RETURNED BY THE RETRIEVE DIRECTORY REQUEST
64

FIG. 7

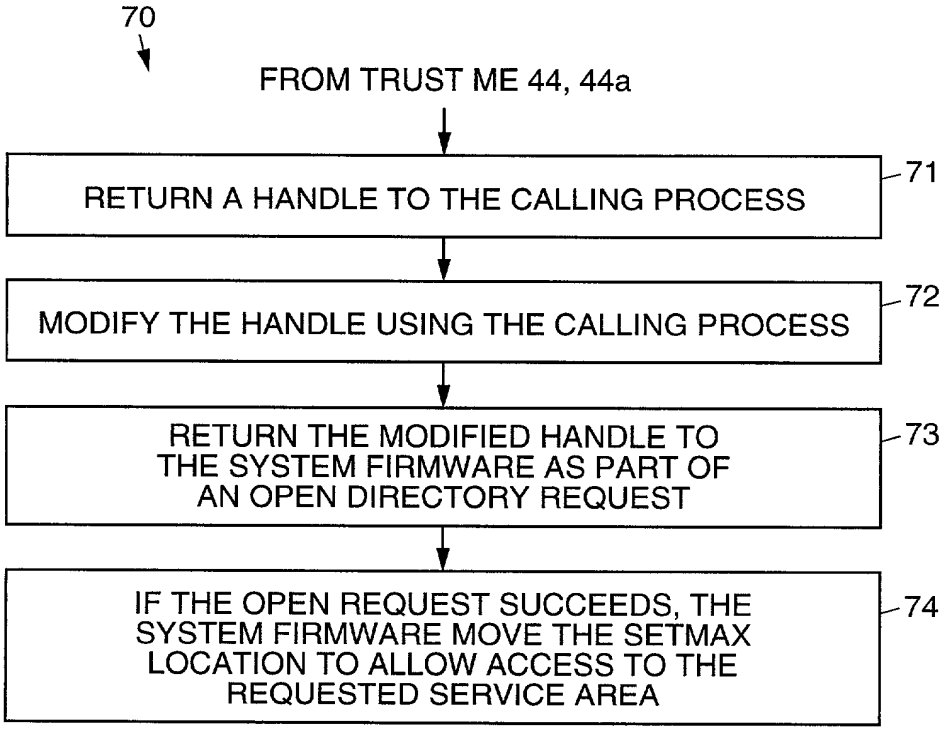

70
FROM TRUST ME 44, 44a
RETURN A HANDLE TO THE CALLING PROCESS
71
MODIFY THE HANDLE USING THE CALLING PROCESS
72
RETURN THE MODIFIED HANDLE TO THE SYSTEM FIRMWARE AS PART OF AN OPEN DIRECTORY REQUEST
73
IF THE OPEN REQUEST SUCCEEDS, THE SYSTEM FIRMWARE MOVE THE SETMAX LOCATION TO ALLOW ACCESS TO THE REQUESTED SERVICE AREA
74

FIG. 8

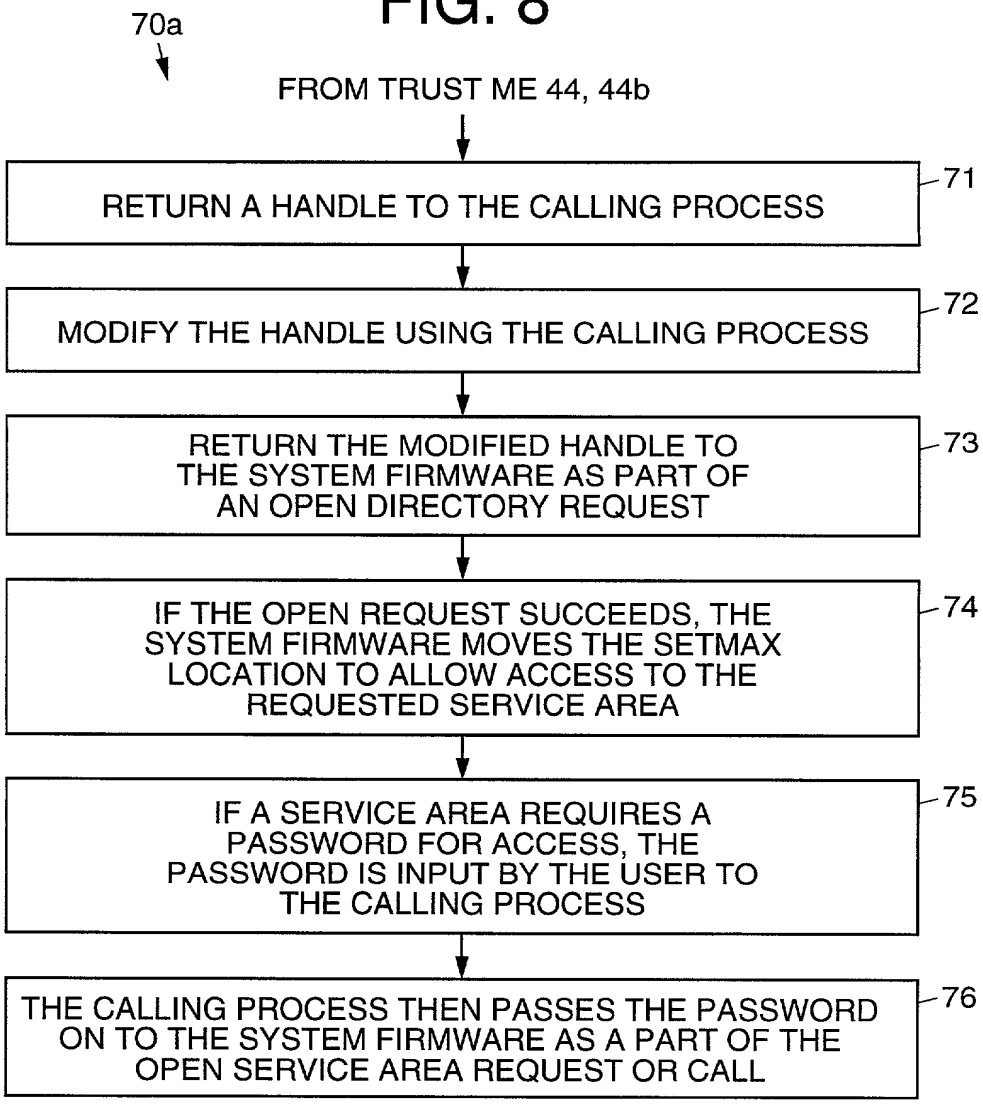
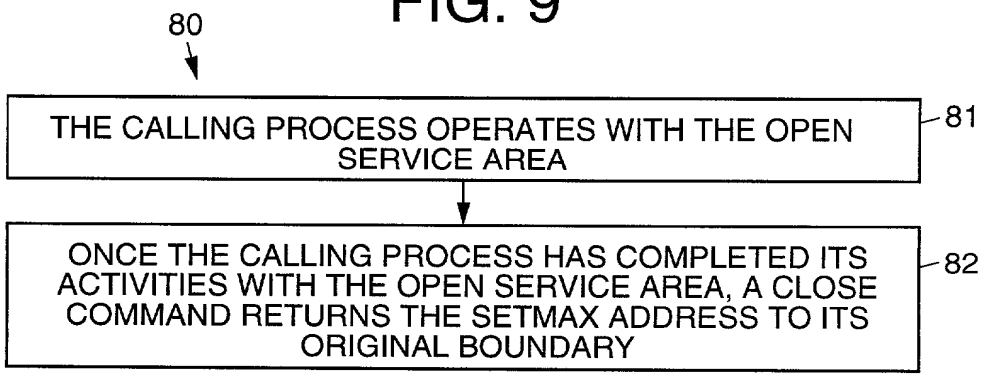

70a
FROM TRUST ME 44, 44b
RETURN A HANDLE TO THE CALLING PROCESS
71
MODIFY THE HANDLE USING THE CALLING PROCESS
72
RETURN THE MODIFIED HANDLE TO THE SYSTEM FIRMWARE AS PART OF AN OPEN DIRECTORY REQUEST
73
IF THE OPEN REQUEST SUCCEEDS, THE SYSTEM FIRMWARE MOVES THE SETMAX LOCATION TO ALLOW ACCESS TO THE REQUESTED SERVICE AREA
74
IF A SERVICE AREA REQUIRES A PASSWORD FOR ACCESS, THE PASSWORD IS INPUT BY THE USER TO THE CALLING PROCESS
75
THE CALLING PROCESS THEN PASSES THE PASSWORD ON TO THE SYSTEM FIRMWARE AS A PART OF THE OPEN SERVICE AREA REQUEST OR CALL
76

FIG. 9


80
THE CALLING PROCESS OPERATES WITH THE OPEN SERVICE AREA
81
ONCE THE CALLING PROCESS HAS COMPLETED ITS ACTIVITIES WITH THE OPEN SERVICE AREA, A CLOSE COMMAND RETURNS THE SETMAX ADDRESS TO ITS ORIGINAL BOUNDARY
82